

STIC Biotechnology Systems Branch**RAW SEQUENCE LISTING**
ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 10/585,886

Source: STIC

Date Processed by STIC: 7/29/06

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 571-272-2510; FAX: 571-273-0221

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE **CHECKER VERSION 4.4.0 PROGRAM**, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

<http://www.uspto.gov/web/offices/pac/checker/chkrnote.htm>

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<<http://www.uspto.gov/ebs/efs/downloads/documents.htm>> , EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
3. Hand Carry, Federal Express, United Parcel Service, or other delivery service (EFFECTIVE 01/14/05):
U.S. Patent and Trademark Office, Mail Stop Sequence, Customer Window, Randolph Building, 401 Dulany Street, Alexandria, VA 22314

Revised 01/10/06

Raw Sequence Listing Error Summary

ERROR DETECTED

SUGGESTED CORRECTION

SERIAL NUMBER:

10/585,886

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE

- 1 Wrapped Nucleics
 Wrapped Aminos The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."
- 2 Invalid Line Length The rules require that a line not exceed 72 characters in length. This includes white spaces.
- 3 Misaligned Amino
 Numbering The numbering under each 5th amino acid is misaligned. Do not use tab codes between numbers; use **space characters**, instead.
- 4 Non-ASCII The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.
- 5 Variable Length Sequence(s) contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.
- 6 PatentIn 2.0
 "bug" A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s) . Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.
- 7 Skipped Sequences
 (OLD RULES) Sequence(s) missing. If intentional, please insert the following lines for each skipped sequence:
 (2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
 (i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading)
 (xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
 This sequence is intentionally skipped

 Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences.
- 8 Skipped Sequences
 (NEW RULES) Sequence(s) missing. If intentional, please insert the following lines for each skipped sequence.
 <210> sequence id number
 <400> sequence id number
 000
- 9 Use of n's or Xaa's
 (NEW RULES) Use of n's and/or Xaa's have been detected in the Sequence Listing.
 Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present.
 In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.
- 10 Invalid <213>
 Response Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown or is Artificial Sequence
- 11 Use of <220> Sequence(s) missing the <220> "Feature" and associated numeric identifiers and responses. Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section.
 (See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)
- 12 PatentIn 2.0
 "bug" Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.
- 13 Misuse of n/Xaa "n" can only represent a single nucleotide; "Xaa" can only represent a single amino acid



IFWP

RAW SEQUENCE LISTING DATE: 07/20/2006
 PATENT APPLICATION: US/10/585,886 TIME: 08:34:04

Input Set : A:\10861-034US1.txt
 Output Set: N:\CRF4\07202006\J585886.raw

4 <110> APPLICANT: Oberdoerffer, Philipp
 5 Kanellopoulou, Chrysi
 7 <120> TITLE OF INVENTION: SYSTEMS AND METHODS FOR SHORT RNA EXPRESSION
 9 <130> FILE REFERENCE: 10861-034US1
 C--> 11 <140> CURRENT APPLICATION NUMBER: US/10/585,886
 C--> 11 <141> CURRENT FILING DATE: 2006-07-12
 11 <150> PRIOR APPLICATION NUMBER: PCT/US2005/003104
 12 <151> PRIOR FILING DATE: 2005-01-21
 14 <150> PRIOR APPLICATION NUMBER: US 60/538,871
 15 <151> PRIOR FILING DATE: 2004-01-22
 17 <160> NUMBER OF SEQ ID NOS: 22
 19 <170> SOFTWARE: FastSEQ for Windows Version 4.0
 21 <210> SEQ ID NO: 1
 22 <211> LENGTH: 623
 23 <212> TYPE: DNA
 24 <213> ORGANISM: Synthetic U6-STOP-shA1 construct
 26 <400> SEQUENCE: 1
 27 tccgacgccg ccattctctag gccgcgcgcg gcccccctcgc acagacttgt gggagaagct 60
 28 cggctactcc cctgccccgg ttaatttgca tataatatatt cctagtaact atagaggctt 120
 29 aatgtgcatg aaaagacaga taatctgttc tttttaatac tagctacatt ttacatgata 180
 30 ggcttggatt tctataagag atacaaatac taaattatta ttttaaaaaa cagcacaaaa 240
 31 ggaaactcac cctaactgta aagtaattgt gtgttttgag actataactt cgtatagcat 300
 32 acattatacg aagttattac gtttttgca tttttgaatt cgttcctcag aggaactgac 360
 33 aagcacccta acatcctatt ggaggctcac tcacgttttt tctattttgt ttcttgacag 420
 34 cagagctcgt tgctcactgt atagctcagg ttggcctgac actgatgagg ttctccagt 480
 35 actgcctcta cctacctact gggatgacag aggtgtacca ccaagccacg cccgggggat 540
 36 ccataacttc gtatagcata cattatacga aggaaatgct ctttctcttc aaagctttga 600
 37 ggagaaagag catttccctt ttt 623
 39 <210> SEQ ID NO: 2
 40 <211> LENGTH: 282
 41 <212> TYPE: DNA
 42 <213> ORGANISM: Artificial Sequence
 44 <220> FEATURE:
 46 <223> OTHER INFORMATION: Functional units of the U6-STOP-shA1 construct
 48 <400> SEQUENCE: 2
 49 tccgacgccg ccattctctag gccgcgcgcg gcccccctcgc acagacttgt gggagaagct 60
 50 cggctactcc cctgccccgg ttaatttgca tataatatatt cctagtaact atagaggctt 120
 51 aatgtgcatg aaaagacaga taatctgttc tttttaatac tagctacatt ttacatgata 180
 52 ggcttggatt tctataagag atacaaatac taaattatta ttttaaaaaa cagcacaaaa 240
 53 ggaaactcac cctaactgta aagtaattgt gtgttttgag ac 282
 55 <210> SEQ ID NO: 3
 56 <211> LENGTH: 5
 57 <212> TYPE: DNA

Does Not Comply
 Corrected Diskette Needed

Pg. 1

Invalid
 Response

See item
 #10 on
 error
 Summary
 Sheet.

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/585,886

DATE: 07/20/2006

TIME: 08:34:04

Input Set : A:\10861-034US1.txt

Output Set: N:\CRF4\07202006\J585886.raw

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58 <213> ORGANISM: Artificial Sequence
60 <220> FEATURE:
61 <223> OTHER INFORMATION: U6 promoter of TATA box
63 <400> SEQUENCE: 3
64 tataaa 5
66 <210> SEQ ID NO: 4
67 <211> LENGTH: 34
68 <212> TYPE: DNA
69 <213> ORGANISM: Unknown
71 <220> FEATURE:
72 <223> OTHER INFORMATION: Wild type of loxP sequence
74 <400> SEQUENCE: 4
75 ataacttcgt atagcatata ttatacgaag ttat 34
77 <210> SEQ ID NO: 5
78 <211> LENGTH: 225
79 <212> TYPE: DNA
80 <213> ORGANISM: Artificial Sequence
82 <220> FEATURE:
84 <223> OTHER INFORMATION: Stop casete sequence includes U6 pol III
85 termination
87 <400> SEQUENCE: 5
88 tacgtttttg cgatttttga attcgtttct cagaggaact gacaagcacc ctaacatcct 60
89 attggaggct cactcacgtt ttttctatgt tgtttcttga cagcagagct cgttgctcac 120
90 tgtatagctc aggttggcct gacactgatg aggttctcca gtgactgcct ctacctacct 180
91 actgggatga cagaggtgta ccaccaagcc acgcccgggg gatcc 225
93 <210> SEQ ID NO: 6
94 <211> LENGTH: 212
95 <212> TYPE: DNA
96 <213> ORGANISM: Artificial Sequence
98 <220> FEATURE:
100 <223> OTHER INFORMATION: genomic U6 PolIII termination sequence
102 <400> SEQUENCE: 6
103 tttttgaatt cgttcctcag aggaactgac aagcacccta acatcctatt ggaggctcac 60
104 tcacgttttt tctattttgt ttcttgacag cagagctcgt tgctcactgt atagctcagg 120
105 ttggcctgac actgatgagg ttctccagtg actgcctcta cctacctact gggatgacag 180
106 aggtgtacca ccaagccacg cccgggggat cc 212
108 <210> SEQ ID NO: 7
109 <211> LENGTH: 34
110 <212> TYPE: DNA
111 <213> ORGANISM: Artificial Sequence
113 <220> FEATURE:
114 <223> OTHER INFORMATION: the mutant second loxP site downstream of the STOP
115 cassette
117 <400> SEQUENCE: 7
118 ataacttcgt atagcatata ttatacgaag gaaa 34
120 <210> SEQ ID NO: 8
121 <211> LENGTH: 22
122 <212> TYPE: DNA
123 <213> ORGANISM: Artificial Sequence

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Input Set : A:\10861-034US1.txt

Output Set: N:\CRF4\07202006\J585886.raw

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125 <220> FEATURE:
126 <223> OTHER INFORMATION: Primer
128 <400> SEQUENCE: 8
129 ggacctccat ctgctcttat tt 22
131 <210> SEQ ID NO: 9
132 <211> LENGTH: 22
133 <212> TYPE: DNA
134 <213> ORGANISM: Artificial Sequence
136 <220> FEATURE:
137 <223> OTHER INFORMATION: Primer
139 <400> SEQUENCE: 9
140 ggtctattac tgtgcaagtt gg 22
142 <210> SEQ ID NO: 10
143 <211> LENGTH: 27
144 <212> TYPE: DNA
145 <213> ORGANISM: Artificial Sequence
147 <220> FEATURE:
148 <223> OTHER INFORMATION: Primer
150 <400> SEQUENCE: 10
151 tgtgaattcg ttcctcagag gaactga 27
153 <210> SEQ ID NO: 11
154 <211> LENGTH: 36
155 <212> TYPE: DNA
156 <213> ORGANISM: Artificial Sequence
158 <220> FEATURE:
159 <223> OTHER INFORMATION: Primer
161 <400> SEQUENCE: 11
162 tgtggatccc ccgggcgtgg cttggtggtta cacctc 36
164 <210> SEQ ID NO: 12
165 <211> LENGTH: 29
166 <212> TYPE: DNA
167 <213> ORGANISM: Artificial Sequence
169 <220> FEATURE:
170 <223> OTHER INFORMATION: Primer
172 <400> SEQUENCE: 12
173 gactctagat ccgacgccgc catctctag 29
175 <210> SEQ ID NO: 13
176 <211> LENGTH: 85
177 <212> TYPE: DNA
178 <213> ORGANISM: Artificial Sequence
180 <220> FEATURE:
181 <223> OTHER INFORMATION: Primer
183 <400> SEQUENCE: 13
184 tgcgaattca aaaatcgcaa aaacgtaata acttcgtata agtatgctat acgaagttat 60
185 agtctcaaaa cacacaatta cttac 85
187 <210> SEQ ID NO: 14
188 <211> LENGTH: 35
189 <212> TYPE: DNA
190 <213> ORGANISM: Artificial Sequence

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192 <220> FEATURE:
193 <223> OTHER INFORMATION: Primer
195 <400> SEQUENCE: 14
196 tgctcgagat gtctgagtac gagttcatgc atatc 35
198 <210> SEQ ID NO: 15
199 <211> LENGTH: 41
200 <212> TYPE: DNA
201 <213> ORGANISM: Artificial Sequence
203 <220> FEATURE:
204 <223> OTHER INFORMATION: Primer
206 <400> SEQUENCE: 15
207 ctggatcctt atttcagcag gaacagcatc tcccatatct g 41
209 <210> SEQ ID NO: 16
210 <211> LENGTH: 32
211 <212> TYPE: DNA
212 <213> ORGANISM: Artificial Sequence
214 <220> FEATURE:
215 <223> OTHER INFORMATION: Primer
217 <400> SEQUENCE: 16
218 ctggatcctt acttgaggag aaagagcatt tc 32
220 <210> SEQ ID NO: 17
221 <211> LENGTH: 21
222 <212> TYPE: DNA
223 <213> ORGANISM: Artificial Sequence
225 <220> FEATURE:
226 <223> OTHER INFORMATION: Primer
228 <400> SEQUENCE: 17
229 ttcttaataa cccagccttt g 21
231 <210> SEQ ID NO: 18
232 <211> LENGTH: 21
233 <212> TYPE: DNA
234 <213> ORGANISM: Artificial Sequence
236 <220> FEATURE:
237 <223> OTHER INFORMATION: Primer
239 <400> SEQUENCE: 18
240 gtgatggcag gagatttgta a 21
242 <210> SEQ ID NO: 19
243 <211> LENGTH: 24
244 <212> TYPE: DNA
245 <213> ORGANISM: Artificial Sequence
247 <220> FEATURE:
248 <223> OTHER INFORMATION: Primer
250 <400> SEQUENCE: 19
251 cattaactgg ggaaggattg tgac 24
253 <210> SEQ ID NO: 20
254 <211> LENGTH: 24
255 <212> TYPE: DNA
256 <213> ORGANISM: Artificial Sequence
258 <220> FEATURE:

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Input Set : A:\10861-034US1.txt

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259 <223> OTHER INFORMATION: Primer
261 <400> SEQUENCE: 20
262 gcagaaaagt cagccagcca gatt 24
264 <210> SEQ ID NO: 21
265 <211> LENGTH: 20
266 <212> TYPE: DNA
267 <213> ORGANISM: Artificial Sequence
269 <220> FEATURE:
270 <223> OTHER INFORMATION: Primer
272 <400> SEQUENCE: 21
273 caagaggag agcaagccta 20
275 <210> SEQ ID NO: 22
276 <211> LENGTH: 20
277 <212> TYPE: DNA
278 <213> ORGANISM: Artificial Sequence
280 <220> FEATURE:
281 <223> OTHER INFORMATION: Primer
283 <400> SEQUENCE: 22
284 cgtctcaggc cttcagtgag 20

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/585,886

DATE: 07/20/2006

TIME: 08:34:05

Input Set : A:\10861-034US1.txt

Output Set: N:\CRF4\07202006\J585886.raw

L:11 M:270 C: Current Application Number differs, Replaced Current Application No
L:11 M:271 C: Current Filing Date differs, Replaced Current Filing Date